

Appl. No. 10/531,231
Amdt Dated May 10, 2007
Reply to Office Action of January 12, 2007

Amendments to the Drawings:

The attached sheet of drawings includes changes to Fig. 10. This sheet replaces the original sheet including Fig. 10.

Attachment: Replacement Sheet

REMARKS

Applicant thanks the Examiner for finding claims 19-21 allowable. Claims 1-18 have been cancelled from the application, and new claims 22-27 have been added to the application. Accordingly, claims 19-27 are pending in the application.

The specific rejections raised by the Examiner will now be addressed as follows.

Drawing objection

The Examiner objected to Figures 5, 7 and 10 for failing to label a mixer-output therein.

Applicant kindly points out that Figure 5 presently on file includes labels x' and y' below resistor elements labeled R3 and R4 for active mixer 72, and that the description makes mention of x' and y' . More specifically, paragraph [119] states "*the outputs of the active mixer 72, x' and y'* ". For passive mixer 76, the outputs are presently labeled BB+ and BB- and referred to at paragraph [0094]. Therefore, the mixer circuits of Figure 5 are presently labeled, and withdrawal of the Examiner's rejection to Figure 5 is requested.

Applicant kindly points out that Figure 7 presently on file is not a mixer circuit, but is a current source circuit having outputs Ia and Ib, which are clearly labeled. Withdrawal of the Examiner's rejection to Figure 7 is requested.

Figure 10 has been amended to label the mixer circuit outputs located under resistor elements R3 and R4 as x' and y' . Paragraph [0131] describes the circuit of Figure 10 as being a BiCMOS implementation of the circuit of Figure 5, and the output terminals of the active mixer are at the same location as in the embodiment of Figure 5. The output terminals of the passive mixer are labeled BB+ and BB-. In view of the amendment to Figure 10, Applicant submits that the Examiner's rejection to Figure 10 is overcome.

Claim informalities

The Examiner has noted informalities in claims 5, 11 and 20. The cancellation of claims 5 and 11 renders the Examiner's rejections thereto moot. Claim 20 has been amended to replace "A1" with -- Δ I--.

Claim rejections under 35 U.S.C. 103

Applicant submits that the cancellation of claims 1-18 renders the Examiner's rejection to claims 1-18 under 35 U.S.C. 103 moot.

New claims

Applicant takes the opportunity to add new claims 22-27 to the application.

New claim 22 is dependent on claim 19 and recites subject matter substantially similar to cancelled claim 3.

New claim 23 is dependent on claim 19 and recites subject matter substantially similar to cancelled claim 2.

New claim 24 is dependent on claim 19 and recites features of current sources Ia and Ib, and a step of driving transistors of the current sources with a level of Δ I. The subject matter of new claim 24 is described at paragraph [0117] of the description.

New claim 25 is dependent on claim 20 and recites subject matter substantially similar to cancelled claim 4.

New claim 26 recites steps of the two-tone test recited in claim 25, which appear in claim 19.

New claim 27 substantially corresponds to new claim 24.

Summary

Applicant submits that application is in form for allowance, and action to that effect is respectfully requested.

Respectfully submitted,

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